



Box sea  
1653

Attorney Docket No. 24170  
BOX PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KIM et al.

Serial No. 09/627,165

Filed: July 27, 2000

Group Art Unit: 1653

Examiner: M. Robinson

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SEP 26 2001

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For: **CRUDE EXTRACT FROM *Viscum album coloratum*, AND PROTEINS  
AND LECTINS ISOLATED THEREFROM**

TRANSMITTAL LETTER

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Submitted herewith for filing in the U.S. Patent and  
Trademark Office is the following:


- (1) Transmittal Letter;
- (2) Response to a Notice to Comply with Requirements under 37  
C.F.R. 1.821(a)(1) and (a)(2);
- (3) A copy of the Sequence Listing in Computer Readable Form;
- (4) Appendix A;
- (5) Verification Summary Report generated by Checker Version  
3.0; and
- (6) Copy of Notice to Comply with Requirements for Patent  
Applications Containing Nucleotide Sequence and/or Amino  
Acid Sequence Disclosures.

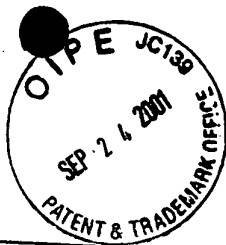
Please charge any required fee, or credit any overpayment,  
in connection with this matter to deposit Account No. 14-0112.

September 24, 2001  
NATH & ASSOCIATES PLLC  
1030 15<sup>TH</sup> Street N.W., 6TH Floor  
Washington, D.C. 20005

Respectfully submitted,  
NATH & ASSOCIATES PLLC

By:

  
Gary M. Nath  
Registration No. 26,965  
Joshua B. Goldberg  
Reg. No. 44,126  
Customer No. 20529



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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|               |             |                       |                     |
|---------------|-------------|-----------------------|---------------------|
| SERIAL NUMBER | FILING DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NO. |
|               |             |                       |                     |

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|----------|--------------|
| EXAMINER |              |
|          |              |
| ART UNIT | PAPER NUMBER |
|          | 6            |

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application

Commissioner of Patents

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

APPLICANT IS GIVEN 30 days FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for response beyond the SIX MONTH statutory period. Direct the response to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the response.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Hope Robinson whose telephone number is (703) 308-6231. The Examiner can normally be reached daily from 9:00 A.M. to 5:30 P.M.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Christopher S.F. Low, can be reached at (703) 308-2923. The OFFICIAL fax phone number for Technology Center 1600 is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

KAREN COCHRANE CARLSON, PH.D.  
PRIMARY EXAMINER



SEP 26 2001

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Application No.: 09/627,165

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING  
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: Application needs sequence identifiers.

**Applicant Must Provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE.**

1600 RECEIVED  
BIOTECHNOLOGY SYSTEMS  
MAY 01 2001  
165 #5

**RAW SEQUENCE LISTING**  
**ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/627,165

Source: OIP E

Date Processed by STIC: 4/16/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/627,165

DATE: 04/16/2001

TIME: 11:22:51

Input Set : A:\CRFascidoc.txt.txt

Output Set: N:\CRF3\04162001\I627165.raw

Does Not Comply  
Corrected Diskette Needed

pg 1-5

3 <110> APPLICANT: KIM, Jong-Bae  
5 <120> TITLE OF INVENTION: CRUDE EXTRACT FROM Viscum album coloratum, AND PROTEINS  
6 AND LECTINS ISOLATED THEREFROM

8 &lt;130&gt; FILE REFERENCE: Korean Mistletoe Lectin

10 &lt;140&gt; CURRENT APPLICATION NUMBER: 09/627,165

11 &lt;141&gt; CURRENT FILING DATE: 2000-07-27

13 &lt;160&gt; NUMBER OF SEQ ID NOS: 16

15 &lt;210&gt; SEQ ID NO: 1

16 &lt;211&gt; LENGTH: 762

17 &lt;212&gt; TYPE: DNA

18 &lt;213&gt; ORGANISM: Viscum album coloratum

19 &lt;221&gt; NAME/KEY: misc\_feature

20 &lt;223&gt; OTHER INFORMATION: any set containing

21 &lt;400&gt; SEQUENCE: 1 "n"=X, X=any amino acid

22 tacgagagggc taagactcag agttacgcat caaaccacgg ggcagcaata tttccgggttc 60  
23 atcacgcttc tccgagatta tgtctcaagc ggaagctttt ccaatgagat accactcttg 120  
24 cgtcagctcta cgatccccgt ctccgatgag caaagatttg tgttggtgga actcaccaat 180  
25 caggggggag actcgatcac ggcgcacatc gacgttacta acctgtacct ggtggcttac 240  
26 caagcaggcg accaattcta ctttttgcgc gacgcaccag acggcgcgga aaggcatctc 300  
27 ttcaccggca ccaccagatc ctccctccca ttcaccgga gctacacaga tctggagcga 360  
28 ttcgcgggtc atagggacca gatccctctg ggtagagagg aactcattca atccgtctcg 420  
29 gcccttcggt ttcggggcag caacactcgt gcccaagctc gttcctttat catctcatt 480  
30 cagatgatct cagaggccgc cagattcaat cccatcttat ggagggtcgc ccaatacatt 540  
31 agcagtgggg ggtcatttct gccagacacg tacattctcc agctggagac gagttggggg 600  
32 caacaatcca cgcaagttca gcaactcgac gatggcggtt ttaataaacc aattcggttg 660  
33 actatatcca ctggtgtctt cgtgacgttg agcaatgttc ggcagctgat cgccagctta 720  
34 ggcagctgat tgtttgtatg cgaggacggc ccatcttctt ct 762

Delete circled item below  
because no n's exist in the  
sequence

This is a nucleic acid sequence

FYI:  
"n" can only  
represent  
a single  
nucleotide.  
n ≠ an amino  
acidFYI: "n" does not belong in an  
amino  
acid  
sequence

use Xaa

in an amino  
acid sequence

FYI: no Xaa's

exist in  
this sequence

Delete circled item

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/627,165

DATE: 04/16/2001  
TIME: 11:22:51

Input Set : A:\CRFascidoc.txt.txt  
Output Set: N:\CRF3\04162001\I627165.raw

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64          100          105          110
66 Gly Ser Tyr Thr Asp Leu Glu Arg Phe Ala Gly His Arg Asp Gln Ile
67          115          120          125
69 Pro Leu Gly Arg Glu Glu Leu Ile Gln Ser Val Ser Ala Leu Arg Phe
70          130          135          140
72 Pro Gly Ser Asn Thr Arg Ala Gln Ala Arg Ser Phe Ile Ile Leu Ile
73 145          150          155          160
75 Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg Ala
76          165          170          175
78 Arg Gln Tyr Ile Ser Ser Gly Gly Ser Phe Leu Pro Asp Thr Tyr Ile
79          180          185          190
81 Leu Gln Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln His
82          195          200          205
84 Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Thr Ile Ser Thr
85          210          215          220
87 Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser Leu
88 225          230          235          240
90 Ala Ile Met Leu Phe Val Cys Glu Asp Arg Pro Ser Ser Ser
91          245          250
94 <210> SEQ ID NO: 3
95 <211> LENGTH: 762
96 <212> TYPE: DNA
97 <213> ORGANISM: Viscum album coloratum
98 <221> NAME/KEY: misc_feature
99 <223> OTHER INFORMATION: (any set containing "n"=X, X=any amino acid)
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103 atcacgcttc tccgagatca tgtctcaagc ggaagcttgt ccaatcaaata accactcttg 120
104 cggcagtccta ctgtccccgt ctcggtacag cagagatttg tgttggtgga actcagcaat 180
105 caggggggag actcgatcac ggccgccatc gacgttacca atctgtacgt ggtggcttac 240
106 caagcaggca accaatccta ctttttgcgc gacgcacctc gcggcgcgga aacgtatctc 300
107 ttcaccggca ccaccgatc ctctctccca ttcaacggaa gctaccctga tctggagcga 360
108 tacgccggac atagggacca gatccctctc ggtatagacc aactcattca atcgtctcgt 420
109 gcccttcggt ttccgggcag caacactcgt gcccaagctc gttcctttat catcctcatt 480
110 cagatgatct ccgaggccgc cagattcaat cccatcttat ggagggctcg ccaatacatt 540
111 agcagtgggg ggtcatttct gccagacacg tacattctcc agctggagac gagttggggg 600
112 caacaatcca cgcaagttca gactcgacg gatggcggtt ttaataaccc aatcggttg 660
113 actatatcca ctggtgtctt cgtgacgttg agcaatgttc gcgacgtgat cgccagcyta 720
114 gcgatcatgt tgtttgtatg cgaggaccgg ccatcttctt ct 762
117 <210> SEQ ID NO: 4
118 <211> LENGTH: 254
119 <212> TYPE: PRT
120 <213> ORGANISM: Viscum album coloratum
121 <221> NAME/KEY: misc_feature
122 <223> OTHER INFORMATION: (any set containing "n"=X, X=any amino acid)
124 <400> SEQUENCE: 4
125 Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Asp Gln
126 1          5          10          15
128 Tyr Phe Lys Phe Ile Thr Leu Leu Arg Asp His Val Ser Ser Gly Ser

```

*Delete circled item*

*This is a nucleic acid sequence*

*"n" can only represent a single nucleotide*

*No n's exist in this sequence*

*Insert 2207 wherever 2217, 2227, or 2237 is shown*

*Xaa Xaa = any amino acid*

*delete n=x*

*This is an amino acid sequence -*

*do not show any statement pertaining*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/627,165

DATE: 04/16/2001

TIME: 11:22:51

Input Set : A:\CRFascidoc.txt.txt

Output Set: N:\CRF3\04162001\I627165.raw

129                    20                    25                    30  
131 Leu Ser Asn Gln Ile Pro Leu Leu Arg Gln Ser Thr Val Pro Val Ser  
132                    35                    40                    45  
134 Asp Thr Gln Arg Phe Val Leu Val Glu Leu Ser Asn Gln Gly Gly Asp  
135                    50                    55                    60  
137 Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val Ala Tyr  
138 65                    70                    75                    80  
140 Gln Ala Gly Asn Gln Ser Tyr Phe Leu Arg Asp Ala Pro Arg Gly Ala  
141                    85                    90                    95  
143 Glu Thr Tyr Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro Phe Asn  
144                    100                    105                    110  
146 Gly Ser Tyr Pro Asp Leu Glu Arg Tyr Ala Gly His Arg Asp Gln Ile  
147                    115                    120                    125  
149 Pro Leu Gly Ile Asp Gln Leu Ile Gln Ser Val Ser Ala Leu Arg Phe  
150                    130                    135                    140  
152 Pro Gly Ser Asn Thr Arg Ala Gln Ala Arg Ser Phe Ile Ile Leu Ile  
153 145                    150                    155                    160  
155 Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg Ala  
156                    165                    170                    175  
158 Arg Gln Tyr Ile Ser Ser Gly Gly Ser Phe Leu Pro Asp Thr Tyr Ile  
159                    180                    185                    190  
161 Leu Gln Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln His  
162                    195                    200                    205  
164 Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Thr Ile Ser Thr  
165                    210                    215                    220  
167 Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser Xaa  
168 225                    230                    235                    240  
170 Ala Ile Met Leu Phe Val Cys Glu Asp Arg Pro Ser Ser Ser  
171                    245                    250  
174 <210> SEQ ID NO: 5  
175 <211> LENGTH: 768  
176 <212> TYPE: DNA  
177 <213> ORGANISM: Viscum album coloratum  
178 <221> NAME/KEY: misc\_feature  
179 <223> OTHER INFORMATION: any set containing "n"=X, X=any amino acid  
181 <400> SEQUENCE: 5  
182 tacgagagggc taagactcag agttacgcat caaaccacgg ggcagcaata tttccgggttc 60  
183 atcaagcttc tccgagactc tgtctcaagc ggaagctttt ccaatgacat accgctcctg 120  
184 cctccgtcaa tcccgggtct ctctgcgcag agatttgtgt tgggtggaact cacaaatcag 180  
185 ttgggaaagt ggggaagact gatcacggcc gccatcgacg ttaccaatct gtacgtgggtg 240  
186 gcttaccaag caggcgacca atcctacttt ttgcgcgacg caccagacgg cgcggaaagg 300  
187 catctcttca cgggcaccac cagatcctct ctccctttca acggaagcta cgctgatctg 360  
188 gagcggtagc cgggacatag ggaccggatc cctctgggta gagagccact catacgatcc 420  
189 gtctcggcgc ttgattatcc cggcggcagc acgcgcgccc aagccagttc cattattatc 480  
190 gtcattcaga tgatctccga ggcggccaga ttcaatccca tcctatggag ggctcgccaa 540  
191 tacattaaca gtgggggtgtc atatcttcca gacgtgtaca tgctggagct ggaggcgagt 600  
192 tggggccaac aatcgaccca agtcacgagc tcgaccgatg gcgtttttta taacccaatt 660  
193 cggttgggta tatccaccgg caacttcgtg tggttgagca atgttcgcga cgtgatcgcc 720  
194 agcttgggga tcatggtgtt tgtatgcagg gaccggtcat ctcccoct 768

no nls exist in this  
sequence

delete  
circled  
item

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/627,165

DATE: 04/16/2001  
TIME: 11:22:51

Input Set : A:\CRFascidoc.txt.txt  
Output Set: N:\CRF3\04162001\I627165.raw

197 <210> SEQ ID NO: 6  
198 <211> LENGTH: 256  
199 <212> TYPE: PRT  
200 <213> ORGANISM: Viscum album coloratum  
201 <221> NAME/KEY: misc\_feature  
202 <223> OTHER INFORMATION: any set containing "n"=X, X=any amino acid  
204 <400> SEQUENCE: 6  
205 Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Asp Glu  
206 1 5 10 15  
208 Tyr Phe Arg Phe Ile Lys Leu Leu Arg Asp Ser Val Ser Ser Gly Ser  
209 20 25 30  
211 Phe Ser Asn Asp Ile Pro Leu Leu Pro Pro Ser Ile Pro Val Ser Ser  
212 35 40 45  
214 Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Leu Gly Lys Trp  
215 50 55 60  
217 Glu Asp Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val  
218 65 70 75 80  
220 Ala Tyr Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Asp  
221 85 90 95  
223 Gly Ala Glu Arg His Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro  
224 100 105 110  
226 Phe Asn Gly Ser Tyr Ala Asp Leu Glu Arg Tyr Ala Gly His Arg Asp  
227 115 120 125  
229 Arg Ile Pro Leu Gly Arg Glu Pro Leu Ile Arg Ser Val Ser Ala Leu  
230 130 135 140  
232 Asp Tyr Pro Gly Gly Ser Thr Arg Ala Gln Ala Ser Ser Ile Ile Ile  
233 145 150 155 160  
235 Val Ile Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp  
236 165 170 175  
238 Arg Ala Arg Gln Tyr Ile Asn Ser Gly Val Ser Tyr Leu Pro Asp Val  
239 180 185 190  
241 Tyr Met Leu Glu Leu Glu Ala Ser Trp Gly Gln Gln Ser Thr Gln Val  
242 195 200 205  
244 Gln Gln Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Gly Ile  
245 210 215 220  
247 Ser Thr Gly Asn Phe Val Trp Leu Ser Asn Val Arg Asp Val Ile Ala  
248 225 230 235 240  
250 Ser Leu Gly Ile Met Val Phe Val Cys Arg Asp Arg Ser Ser Ser Pro  
251 245 250 255  
257 <210> SEQ ID NO: 7  
258 <211> LENGTH: 797  
259 <212> TYPE: DNA  
260 <213> ORGANISM: Viscum album coloratum  
261 <221> NAME/KEY: misc\_feature  
262 <223> OTHER INFORMATION: any set containing "n"=X, X=any amino acid  
264 <400> SEQUENCE: 7  
265 acgatgtaac ctgcactact tccgaacctt cggtacggtt tgtgggtoga aatggcctgt.60  
266 gtctcgacgt cccagagggc gattaccacg atggaagtcg gatacagttg tggccctgca 120  
267 agtccaactc cgatcagaat cagctgtgga cgatcagaag ggatggaacc attcgatcta 180

No Xaa's  
in this  
sequence

(delete  
circled  
item)

delete circled  
item  
(no h's  
in this  
sequence)



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/627,165

DATE: 04/16/2001  
TIME: 11:22:51

Input Set : A:\CRFascidoc.txt.txt  
Output Set: N:\CRF3\04162001\I627165.raw

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268 atggaaggtg cttgacgacc tatgggtata ctgcgggcag ctatataatg atctacgact 240
269 gtaatagagg ggggtgggac cttactactt. ggcagataag gggcaatgga atcatcotta 300
270 atccaagatc catgatggtg atcggaacac catccgggag ccgcggaacc cgtggcacta 360
271 cttttactct gcaaacactg ggttactcat taggacaggg ctggcttgcc agcaatgata 420
272 ccgctcctcg cgaggtaacc atatattggtt tccgcgatca ttgcatgaa actagtggag 480
273 ggaaagtgtg ggttgggact tgtgtgagtg gcaagcagaa ccaaagatgg gctttgtacg 540
274 gggatgggtc cattcgcccg aaaccttacc aagaccaatg cctcacctct cagggagact 600
275 ccggttagatc cgtaatacat ttatttagct gcaccgctgg atcgccaagg caacgatggg 660
276 tatttaccaa taaaggggac attttgaatt taaagaatag gttggccatg gatgtggcgg 720
277 aatcaaatcc aagcctccgc cgaataatca tcttttcagt cactggaaat ccaaatacaa 780
278 tgtggcttcc cgtgccca                                     797
281 <210> SEQ ID NO: 8
282 <211> LENGTH: 266
283 <212> TYPE: PRT
284 <213> ORGANISM: Viscum album coloratum
285 <221> NAME/KEY: misc_feature
286 <223> OTHER INFORMATION: any set containing "n"=X, X=any amino acid
288 <400> SEQUENCE: 8
289 Asp Asp Val Thr Cys Thr Thr Ser Glu Pro Thr Val Arg Phe Val Gly
290 1 5 10 15
292 Arg Asn Gly Leu Cys Leu Asp Val Pro Glu Gly Asp Tyr His Asp Gly
293 20 25 30
295 Ser Arg Ile Gln Leu Trp Pro Cys Lys Ser Asn Ser Asp Gln Asn Gln
296 35 40 45
298 Leu Trp Thr Ile Arg Arg Asp Gly Thr Ile Arg Ser Asn Gly Arg Cys
299 50 55 60
301 Leu Thr Thr Tyr Gly Tyr Thr Ala Gly Ser Tyr Ile Met Ile Tyr Asp
302 65 70 75 80
304 Cys Asn Arg Gly Gly Trp Asp Leu Thr Thr Trp Gln Ile Arg Gly Asn
305 85 90 95
307 Gly Ile Ile Leu Asn Pro Arg Ser Met Met Val Ile Gly Thr Pro Ser
308 100 105 110
310 Gly Ser Arg Gly Thr Arg Gly Thr Thr Phe Thr Leu Gln Thr Leu Gly
311 115 120 125
313 Tyr Ser Leu Gly Gln Gly Trp Leu Ala Ser Asn Asp Thr Ala Pro Arg
314 130 135 140
316 Glu Val Thr Ile Tyr Gly Phe Arg Asp His Cys Met Glu Thr Ser Gly
317 145 150 155 160
319 Gly Lys Val Trp Val Gly Thr Cys Val Ser Gly Lys Gln Asn Gln Arg
320 165 170 175
322 Trp Ala Leu Tyr Gly Asp Gly Ser Ile Arg Pro Lys Pro Tyr Gln Asp
323 180 185 190
325 Gln Cys Leu Thr Ser Gln Gly Asp Ser Val Arg Ser Val Ile Asn Leu
326 195 200 205
328 Phe Ser Cys Thr Ala Gly Ser Pro Arg Gln Arg Trp Val Phe Thr Asn
329 210 215 220
331 Lys Gly Ala Ile Leu Asn Leu Lys Asn Arg Leu Ala Met Asp Val Ala
332 225 230 235 240
334 Glu Ser Asn Pro Ser Leu Arg Arg Ile Ile Ile Phe Ser Val Thr Gly

```

*No Xaa's in this sequence - delete circled item*

*FYI:*

*When describing "n", n must represent a single nucleotide.*

*Please correct subsequent sequence showing similar errors*

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/627,165

DATE: 04/16/2001  
TIME: 11:22:52

Input Set : A:\CRFascidoc.txt.txt  
Output Set: N:\CRF3\04162001\I627165.raw

:21 M:283 W: Missing Blank Line separator, <400> field identifier  
:167 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
:167 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
:487 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12  
:487 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12  
:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
:517 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13  
:517 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13  
:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
:523 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13  
:523 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13  
:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
:527 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13  
:527 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13  
:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
:539 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14  
:539 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14  
:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
:548 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14  
:548 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14  
:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
:557 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14  
:557 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14  
:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14



PAGE: 1  
09/24/2001

# VERIFICATION SUMMARY REPORT

PATENT APPLICATION

DATE:

TIME:

12:52:54

\\Datahold\\seq.list.txt

INPUT SEQ: C:\\Program Files\\USPTO\\Checker

RECEIVED

SEP 26 2001

TECH CENTER 1600/2900

## GENERAL INFORMATION SECTION

3,<110> KIM, Jong-Bae  
5,<120> CRUDE EXTRACT FROM Viscum album coloratum, AND  
PROTEINS  
6, AND LECTINS ISOLATED THEREFROM  
8,<130> Korean Mistletoe Lectin  
10,<140> 09/627,165  
11,<141> 2000-07-27  
13,<160> 16

## ERRORED LINES SECTION

NO ERRORS

W--> 172 Gly Val Phe Val Thr Leu Ser Asn Val Arg Asp Val Ile Ala Ser  
Xaa  
W--> 487 Xaa Val Glu Thr Cys Val Ser His Lys Gln Asn Gln Lys Trp Ala  
Leu  
W--> 520 gccagattca atcccatcnt gtggaggctt cgccggcaaa ttaacagtgg  
ggagtcntct 60  
W--> 526 ttgtgacgn tgagcaatgt tcgacgctg atctccagct tggcgatcat  
gttgttcgaa 240  
W--> 530 gtggatgcgg ccaacgatgt cacctgcact ntttccgaac ccaccgtgcg  
catcgta 357  
W--> 545 Ala Arg Phe Asn Pro Ile Xaa Trp Arg Leu Arg Arg Gln Ile Asn  
Ser  
W--> 554 Asn Thr Gln Ile Arg Leu Gln Ile Ser Ala Gly Asn Phe Val Thr  
Xaa  
W--> 563 Leu Arg Ser Val Val Asp Ala Ala Asn Asp Val Thr Cys Thr Xaa  
Ser

## STATISTICS SUMMARY

Application Serial Number: 09/627,165  
Alpha or Numeric: Numeric  
Application Class:  
Application File Date: 2000-07-27  
Art Unit:  
Software Application:  
Total Number of Sequences: 16  
Total Nucleotides: 5546  
Total Amino Acids: 1849  
Number of Errors: 0  
Number of Warnings: 8  
Number of Corrections: 0